

LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claim in the application:

Claim 1 (previously presented). An intervertebral connection system comprising:

a) a ligament having:

- i) a central portion,
- ii) first and second end portions, and
- iii) first and second conformable portions, each conformable portion comprising a fabric,

wherein the first conformable portion is disposed between the central portion and the first end portion, and the second conformable portion is disposed between the central portion and the second end portion

b) first and second shoulderless bone fasteners,

wherein the first end portion is shaped to cooperatively connect to the first bone fastener, and the second end portion is shaped to cooperatively connect to the second bone fastener.

Claim 2 (original). The system of claim 1 wherein the ligament is bioresorbable.

Claim 3(original). The system of claim 1 wherein the bone fastener comprises an attachment end portion, wherein the attachment end portion has a shape for fitting a driver.

Claim 4(original). The system of claim 1 wherein each bone fastener further comprises an insertion end portion, wherein the insertion end portion is drivable.

Claim 5 (original). The system of claim 1 wherein at least one of the central and conformable portions is tensionable.

Claim 6(original). The system of claim 5 wherein the tensionable portion is braided.

Claim 7(original). The system of claim 1 wherein the central portion is tensionable.

Claim 8 (original). The system of claim 7 wherein the central portion and conformable portions each have a length, and the length of the central portion is at least twice as long as either conformable portion.

Claim 9 (original). The system of claim 1 wherein at least one of the central and conformable portions is extensible.

Claim 10 (original). The system of claim 9 wherein the extensible portion is braided.

Claim 11(original). The system of claim 1 wherein the central portion is extensible.

Claim 12(original). The system of claim 11 wherein the central portion and conformable portions each have a length, and the length of the central portion is at least twice as long as either conformable portion.

Claims 13-18 (cancelled)

Claim ¹³~~19~~ (withdrawn). An intervertebral connection system comprising:

- a) a ligament comprising first and second end portions, and
- b) first and second bone fasteners,

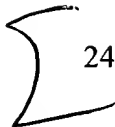
wherein the first bone fastener is connected to the first end portion of the ligament, and the second bone fastener is connected to the second end portion of the ligament, and wherein the first bone fastener is configured to accept a driver.

¹⁴
Claim ~~20~~ (withdrawn). The system of claim ~~18~~¹³ wherein the first bone fastener has an upper surface connected to the first end portion of the ligament, and the upper surface has a recess.

¹⁵
Claim ~~21~~ (withdrawn). The system of claim ~~20~~¹⁴ wherein the recess houses a rescue screw.

¹⁶
Claim ~~22~~ (withdrawn). The system of claim ~~19~~¹³ wherein the upper surface has a circumference, and the second end of the ligament portion attaches to at least half of the circumference.

²¹
Claim ~~23~~ (withdrawn). The system of claim ~~19~~¹³ wherein the upper surface has a circumference, and the second end of the ligament portion attaches to substantially the full circumference.


 24(cancelled)

¹⁷
Claim ~~25~~ (withdrawn). The system of claim ~~22~~¹⁶ wherein at least one of the lateral protrusions defines an angle α of no more than 45 degrees.

¹⁸
Claim ~~26~~ (withdrawn). The system of claim ~~22~~¹⁶ wherein at least one of the lateral protrusions defines an angle α of no more than 30 degrees.

¹⁹
Claim ~~27~~ (withdrawn). The system of claim ~~22~~¹⁶ wherein at least one of the lateral protrusions defines an angle α of between 20 degrees and 30 degrees.

²⁰
Claim ~~28~~ (withdrawn). The system of claim ~~22~~¹⁶ wherein the shank has a diameter D, and at least one of the lateral protrusions has a height H, and the height H of the lateral protrusion is no more than 70% of the diameter D of the shank.

 Claim 29(cancelled)

²²
Claim ~~30~~ (previously presented). An intervertebral connection system comprising:
a) a conformable ligament comprising first and second end portions, each end portion comprising a fabric, and
b) first and second bone fasteners,
wherein the first bone fastener is connected to the first end portion of the ligament, and the second bone fastener is connected to the second end portion of the ligament.
wherein the bone fastener is bioresorbable and is shoulderless.

Claims 31-35 (cancelled)

²³
Claim ~~36~~ (previously presented). An intervertebral connection system comprising:
a) a conformable ligament comprising first and second end portions, each end portion comprising a fabric, and
b) first and second bone fasteners,
wherein the first bone fastener is pre-connected to the first end portion of the ligament, and the second bone fastener is pre-connected to the second end portion of the ligament.

²⁴
Claim ~~37~~ (original). The system of claim ~~36~~ wherein the pre-connection is accomplished by physical locking.

²⁵
Claim ~~38~~ (original). The system of claim ~~36~~ wherein the pre-connection is accomplished by physical connection.

²⁶
Claim ~~39~~ (original). The system of claim ~~36~~ wherein the pre-connection is accomplished by integral connection.

²⁷
Claim ~~40~~ (withdrawn). An intervertebral connection system comprising:
a) a compressible ligament comprising first and second end portions and having at least one bioresorbable portion, and
b) first and second bone fasteners,

wherein the first end portion is shaped to cooperatively connect to the first bone fastener, and the second end portion is shaped to cooperatively connect to the second bone fastener.

²⁸
~~41~~ (withdrawn). The system of claim ~~40~~²⁷ wherein the ligament further comprises a bioresorbable central portion.

²⁹
~~42~~ (withdrawn). The system of claim ~~40~~²⁷ wherein the ligament further comprises a central portion, and conformable portions disposed between the central portion and each end portion, wherein each conformable portion is bioresorbable.

³⁰
~~43~~ (withdrawn). The system of claim ~~40~~²⁷ wherein each end portion is bioresorbable.

³¹
~~44~~ (withdrawn). The system of claim ~~40~~²⁷ wherein each bone fastener is bioresorbable.

³²
~~45~~ (withdrawn). The system of claim ~~40~~²⁷ wherein the bioresorbable portion is selected from the group consisting of a polymer and a copolymer.

³³
~~46~~ (withdrawn). The system of claim ~~40~~²⁷ wherein the bioresorbable portion is selected from the group consisting of PLA, PGA and copolymers of PLA and PGA.

³⁴
~~47~~ (withdrawn). The system of claim ~~40~~²⁷ wherein the bioresorbable portion is a copolymer comprising PLA and PGA.

³⁵
~~48~~ (withdrawn). The system of claim ~~47~~³⁴ wherein the copolymer comprises between 70 wt% and 99 wt% PLA, and 1 wt% and 30 wt% PGA.

³⁶
Claims 49-57 (canceled)

Claim ~~58~~³⁶ (withdrawn). An intervertebral connection system comprising:

a) a compressible ligament comprising first and second end portions, and

b) first and second bone fasteners,
wherein each bone fastener and the ligament are bioresorbable.

Claim ~~37~~³⁷ (withdrawn). The system of claim ~~38~~³⁶ wherein the ligament and each bone fastener has a resorption time, and wherein the resorption time of the ligament is less than that of each bone fastener.

Claim ~~38~~³⁸ (withdrawn). The system of claim ~~38~~³⁶ wherein the ligament is tensionable.

Claim ~~39~~³⁹ (withdrawn). The system of claim ~~38~~³⁶ wherein the bioresorbable ligament is selected from the group consisting of a polymer and a copolymer.

Claim ~~40~~⁴⁰ (withdrawn). The system of claim ~~38~~³⁶ wherein the bioresorbable ligament is selected from the group consisting of PLA, PGA and copolymers of PLA and PGA.

Claim ~~41~~⁴¹ (withdrawn). An intervertebral connection system comprising:

- a) a ligament having:
- i) a central portion,
 - ii) first and second end portions, and
 - iii) first and second conformable portions,

wherein the first conformable portion is disposed between the central portion and the first end portion, and the second conformable portion is disposed between the central portion and the second end portion

b) first and second shoulderless bone fasteners,
wherein the first end portion is connected to the first bone fastener, and the second end portion is connected to the second bone fastener, and
wherein the central portion is made of a first material having a first resorption time, the end portion is made of a second material having a second resorption time, and the first material has a shorter resorption time than that of the second material.

Claim ~~42~~⁴² (withdrawn). An intervertebral connection system comprising:

- a) a compressible ligament comprising first and second end portions, and
- b) first and second bone fasteners, each bone fastener having an attachment end comprising a ceramic material and a shank comprising a polymer material.

Claim ~~65~~⁴³ (withdrawn). An intervertebral connection system comprising:

- a) a ligament comprising first and second end portions, and
- b) first and second bone fasteners,

wherein the first end portion is pivotally connected to the first bone fastener, and the second end portion is pivotally connected to the second bone fastener.

Claim 66 (canceled)

Claim ~~67~~⁴⁴ (previously presented). An intervertebral connection system comprising:

a) a ligament having:

- i) a central portion,
- ii) first and second end portions, each end portion comprising a fabric, and
- iii) first and second intermediate portions,

wherein the first intermediate portion is disposed between the central portion and the first end portion, and the second intermediate portion is disposed between the central portion and the second end portion, and

b) first and second shoulderless bone fasteners,

wherein the first end portion is shaped to cooperatively connect to the first bone fastener, and the second end portion is shaped to cooperatively connect to the second bone fastener, and

wherein at least one of the central and intermediate portions is extensible.

Claim ~~68~~⁴⁵ (original). The system of claim ~~67~~⁴⁴ wherein the extensible portion has a length which can be increased by 25% without exceeding its yield point.

Claim ~~69~~⁴⁶ (original). The system of claim ~~67~~⁴⁴ wherein the extensible portion comprises a textile.

⁴⁷
Claim ~~70~~ (original). The system of claim ~~67~~⁴⁴ wherein the extensible portion is a braided yarn.

⁴⁸
Claim ~~71~~ (original). The system of claim ~~67~~⁴⁴ wherein the central portion is extensible.

⁴⁹
Claim ~~72~~ (previously presented). The system of claim ~~67~~⁴⁴ wherein the central portion and end portions each have a length, and the length of the central portion is at least twice as long as either end portion.

⁵⁰
Claim ~~73~~ (withdrawn). An intervertebral connection system comprising:

a) a ligament having:

- F*
- i) a central portion,
 - ii) first and second end portions, and
 - iii) first and second intermediate portions,

wherein the first intermediate portion is disposed between the central portion and the first end portion, and the second intermediate portion is disposed between the central portion and the second end portion, and

b) first and second bone fasteners,

wherein the first end portion has an upper surface, a lower surface and a first transverse hole therethrough, the hole having a shape for receiving the first bone fastener, and the second end portion has an upper surface, a lower surface and a second transverse hole therethrough, the hole having a shape for receiving the second bone fastener, and

wherein the first bone fastener is received within the first transverse hole, and the second bone fastener is received within the second transverse hole,

wherein the intermediate portions are conformable and made of a braided material, and

wherein the upper surface of each end portion is smooth.

⁵¹
Claim ~~74~~ (withdrawn). The system of claim ~~73~~⁵⁰ wherein the bone fastener is a screw.

Claim ⁵²~~75~~ (withdrawn). The system of claim ⁵⁰~~73~~ wherein the upper surface of the first end portion is integral with the first conformable portion.

Claim ⁵³~~76~~ (withdrawn). The system of claim ^{56 50}~~73~~ wherein the upper surface of the second end portion is integral with the second conformable portion.

Claim ⁵⁴~~77~~ (withdrawn). An intervertebral connection system comprising:

a) a ligament having:

- i) a central portion,
- ii) first and second end portions, and
- iii) first and second intermediate portions,

wherein the first intermediate portion is conformable and is disposed between the central portion and the first end portion, and the second intermediate portion is disposed between the central portion and the second end portion,

b) a first shoulderless bone fastener, and

c) a shouldered bone fastener,

wherein the first end portion is shaped to cooperatively connect to the first shoulderless bone fastener, and the shouldered bone fastener is received through the second end portion.

Claim ⁵⁵~~78~~ (original). A method of stabilizing a pair of vertebrae, each vertebrae having a surface, comprising the steps of:

a) providing an intervertebral connection system comprising:

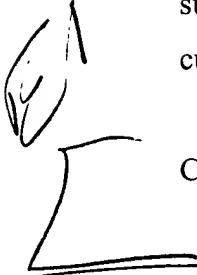
- i) a ligament having first and second end portions, and
- ii) first and second bone fasteners,

wherein the ligament is between the first and second bone fasteners, the first end portion of the ligament being adjacent the first bone fastener, the second end portion of the ligament being adjacent the second bone fastener, and

b) fully inserting the first bone fastener and at least a portion of the first end portion of the ligament into the first vertebra to a location below the first vertebral surface, and

- b) fully inserting the first bone fastener and at least a portion of the first end portion of the ligament into the first vertebra to a location below the first vertebral surface, and
- c) fully inserting the second bone fastener and at least a portion of the second end portion of the ligament into the second vertebra to a location below the second vertebral surface.

⁵⁶
Claim ~~79~~ (original). The method of claim ⁵⁵~~78~~ wherein the first and second vertebrae form a portion of a first lateral aspect of a scoliotic spine having a convex curve, the first bone fastener is inserted into the first lateral aspect of the first vertebra and the second bone fastener is inserted into the first lateral aspect of the second vertebra, and the insertion step of step c) tensions the ligament, thereby at least partially straightening the convex curve.



Claim 80. (canceled)
